



# City of Eureka, California

## Class Specification

This is a class specification and not an individualized job description. A class specification defines the general character and scope of responsibilities of all positions in a job classification, but it is not intended to describe and does not necessarily list every duty for a given position in a classification.

<b>Class Title</b>	<b>Fire Engineer</b>
<b>Class Code Number</b>	<b>6030</b>

### General Statement of Duties

Operates and maintains all fire apparatus and equipment to ensure operational readiness and safety of fire personnel; performs directly related work as required.

### Distinguishing Features of the Class

The principal function of an employee in this class is to operate and maintain all fire apparatus and equipment to ensure operational readiness and safety of fire personnel, including responding to fires, medical emergencies, hazardous materials, and other emergency and non-emergency situations. The work is performed under the supervision and direction of a Fire Captain, but considerable leeway is granted for the exercise of independent judgement and initiative. The nature of the work performed requires an employee in this class to establish and maintain effective working relationships with all others contacted in the course of work. The principal duties of this class are performed in various emergency and non-emergency situations, including exposure to hazardous materials, large quantities of smoke, heavy traffic areas, intense heat, direct exposure to flames, decimated structures, extreme weather conditions, blood-borne pathogens, and other related environments in which the employee is subject to potential personal danger.

### Examples of Essential Work (Illustrative Only)

- Operates and maintains all fire apparatus and equipment to ensure operational readiness and safety of fire personnel, including operating hydraulic pumps and aerial equipment;
- Drives fire apparatus to emergency scene, and positions and prepares equipment for use as directed by command officer, including aerial and fire engines to emergencies, training, and inspections;

- Operates and oversees the use of a variety of fire apparatus, vehicles, and equipment, including operating fire pumps, calculating and monitoring hydraulic conditions, directing engine hook-up, setting controls to ensure proper water flow levels, operating aerial ladder truck, and extending and retracting ladder;
- Responds to fire alarms, drives fire apparatus to emergency scene, delivers all fire equipment, and implements fire suppression and firefighting techniques to rescue victims and protect private and public property;
- Performs daily checks of equipment to ensure all equipment is in good working order, including inspecting all aerial apparatuses, tools, and other related equipment to ensure their efficient operation and readiness for any emergency response situation, and keeping complete and accurate inspection records and apparatus usage log as required;
- Performs fire safety inspections on a variety of businesses and multi-family residences, and participates in a variety of public awareness activities to promote good public relations and fire safety awareness, including providing tours of fire facilities and giving presentations at local schools as requested;
- Investigates fire cause and origin when assigned as a Fire Investigator, including investigating the cause and origin of suspicious fires, collecting evidence samples for lab processing, photographing and sketching fire scenes, interviewing witnesses and suspects, and documenting all investigative activities in investigative reports as required;
- Responds to and mitigates hazardous materials incidents when assigned as a Hazardous Material Specialist, including identifying hazardous materials, mitigating the incident, requesting assistance from other resources as appropriate, and training Hazardous Material personnel in the use of the Department's CAMEO system;
- Inspects all EMT equipment to ensure equipment is maintained in good working condition and stored in proper locations;
- Performs any or all of the duties of a Firefighter as necessary;
- C Makes verbal and written analyses of activities involved in any emergency fire situation;
- Performs all necessary training activities as assigned and in accordance with readiness and preparation for firefighting activities, including training in fire suppression, fire pump operation, aerial apparatus operation, emergency medical training, hazardous materials, vehicle extrication, technical rescues, equipment use and maintenance, and other related functions;
- Provides instruction to other fire personnel on topics related to fire apparatus maintenance, use, and other related topics;
- Performs physical fitness training to maintain physical abilities necessary for firefighting;
- Maintains station and personal living areas in a clean and orderly manner, and maintains surrounding grounds to ensure a safe and pleasant environment for fire personnel and the general public;
- C Serves within a command structure requiring adherence to officers' orders in life threatening situations;
- Keeps immediate supervisor and designated others accurately informed concerning work progress, including present and potential work problems and suggestions for new or improved ways of addressing such problems;
- Attends meetings, conferences, workshops, and training sessions and reviews publications and audio-visual materials to become and remain current on principles, practices, and new developments in assigned work areas;
- Responds to questions and comments from the public in a courteous and timely manner;

- Communicates and coordinates regularly with appropriate others to maximize the effectiveness and efficiency of interdepartmental operations and activities;
- Performs other directly related duties consistent with the role and function of the classification.

### **Required Knowledge, Skills, and Abilities**

- Substantial knowledge of City policies and procedures;
- Substantial knowledge of Fire Department policies, rules, and procedures;
- Substantial knowledge of the principles and practices of fire suppression, rescue, and salvage;
- Substantial knowledge of principles and practices of providing emergency medical care, including First Aid, C.P.R., and other basic medical assistance techniques;
- Substantial knowledge of properties of hazardous materials and appropriate containment and clean-up techniques;
- Substantial knowledge of related Federal, State, and local laws, codes, ordinances, and regulations;
- Substantial knowledge of basic operational and maintenance practices and methods for a variety of fire apparatus and equipment;
- Substantial knowledge of the principles, practices, procedures, equipment, and apparatuses used in firefighting, chemical and hazardous materials, rescue, and various other emergency responses;
- Substantial knowledge of the geography of the City, including street and hydrant locations;
- Ability to act in accordance with departmental policies, rules, and instructions related to firefighting operations;
- Ability to effectively and safely drive and operate the full range of fire apparatus and equipment used by the Department;
- Ability to perform field calculations of hydraulics for the proper and effective operations of equipment at emergency scenes;
- Ability to quickly learn the principles, practices, and procedures of modern firefighting;
- Ability to demonstrate the mechanical aptitude necessary to maintain and operate all related fire fighting equipment;
- Ability to demonstrate physical endurance, agility, strength, and stamina in the performance of hazardous tasks under emergency conditions,
- Ability to demonstrate sound decision making, and quickly respond to emergency situations in an appropriate and safe manner;
- Ability to meet the first aid requirement as prescribed by the State of California and to safely and effectively administer first aid as necessary;
- Ability to learn the City's water main system and street numbering system;
- Ability to effectively analyze fire and emergency situations and adopt effective courses of action;
- Ability to effectively operate and maintain voice radio equipment;
- Ability to efficiently perform fire suppression, rescue, and salvage work;
- Ability to maintain a calm and professional demeanor when responding to emergency situations;
- Ability to use sound judgement and effectively treat victims in emergency situations;
- Ability to learn the geographical layout of the City and related surrounding areas;
- Ability to effectively function as a team member working under the leadership of a command officer;
- Ability to efficiently operate and maintain fire suppression equipment, supplies, and vehicles;

- Ability to establish and maintain effective working relationships with the Command Officers, other Fire Department personnel, other City employees, area businesses, civic and community organizations, and the general public;
- Ability to effectively deal with individuals from various socioeconomic and ethnic backgrounds;
- Ability to communicate effectively with others, both orally and in writing, using both technical and non-technical language;
- Ability to understand and follow oral and/or written policies, procedures, and instructions;
- Ability to prepare and present accurate and reliable reports containing findings and recommendations;
- Ability to operate a personal computer using standard or customized software applications appropriate to assigned tasks;
- Ability to use logical and creative thought processes to develop solutions according to written specifications and/or oral instructions;
- Ability to perform a wide variety of duties and responsibilities with accuracy and speed under the pressure of time-sensitive deadlines;
- Ability and willingness to quickly learn and put to use new skills and knowledge brought about by rapidly changing information and/or technology;
- Integrity, ingenuity, and inventiveness in the performance of assigned tasks.

### **Acceptable Experience and Training**

Any combination of training and/or experience which is equivalent to:

- High School Diploma or GED;
- Some (at least two years) of municipal fire suppression and prevention experience.

### **Required Special Qualifications**

- Valid Class B California Driver's License;
- Medical Examiner's Certificate (CDL);
- Valid Emergency Medical Technician I Certificate;
- First Responder Operations Certificate;
- First Responder Operations Decontamination Certificate;
- State of California Firefighter I Certificate;
- Successful completion of Eureka Fire Department Apparatus Operator Program, including six shifts of supervised driving within the prescribed time period as determined by the Department.

### **Essential Physical Abilities**

- Sufficient clarity of speech and hearing or other communication capabilities, with or without reasonable accommodation, to permit the employee to communicate effectively;
- C Sufficient vision or other powers of observation, with or without reasonable accommodation, to permit the employee to review a wide variety of materials in electronic or hard copy form, operate related vehicles and equipment, inspect fire scenes, and perform all fire prevention, fire suppression, and other related fire operations as required;

- Sufficient manual dexterity, with or without reasonable accommodation, to permit the employee to operate a personal computer, telephone, and other related office equipment and use firefighting equipment in emergency situations;
- Sufficient personal mobility and physical reflexes, with or without reasonable accommodation, to enable the employee to safely lift, move, or maneuver whatever may be necessary to successfully perform the duties of their position;
- Sufficient personal mobility and physical reflexes, with or without reasonable accommodation, to permit the employee to effectively operate and maneuver fire apparatus, and easily access a variety of City locations and efficiently and effectively carry out all physical duties involved in suppression and prevention of firefighting.